

Types of Gene Mutations

Normal DNA	AAA - GGG - TTT - CCC
mRNA	UUU - CCC - AAA - GGG
Amino Acids	phe - pro - Lys - Gly

Mutated DNA #1	AAA - <u>T</u> GG - TTT - CCC
mRNA	UUU - <u>A</u> CC - AAA - GGG
Amino Acids	phe - <u>Thr</u> - Lys - Gly

Type of Mutation: Point Mutation - Missense (substitution)

Mutated DNA #2	AAA - <u>C</u> GG - GTT - TCC - C
mRNA	UUU - <u>G</u> CC - CAA - AGG - G
Amino Acids	phe - <u>Ala - Glu - Arg</u>

Type of Mutation: Frameshift - Insertion